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## JAN 03 2006

Customer No.: 31561 Application No.: 10/708,372 Docket No.: 12680-US-PA

#### <u>AMENDMENTS</u>

## To the claims:

### Claims 1-11 (canceled).

- 12. (previously presented) A shallow trench isolation, comprising:
- a substrate, having a trench therein;

an insulating layer, disposed in the trench, wherein the insulating layer has an upper surface higher than an upper surface of the substrate; and

- a liner layer, formed over the substrate covering the insulating layer so that the liner layer protects the shallow trench isolation from external stress or thermal effect.
- 13. (original) The shallow trench isolation according to claim 12, wherein the liner layer further extends to an upper surface of the substrate.
- 14. (original) The shallow trench isolation according to claim 12, wherein the liner layer has a low etching selectivity relative to the insulating layer.
- 15. (original) The shallow trench isolation according to claim 12, wherein the liner layer has a thickness between 50 angstrom to 200 angstrom.
- 16. (original) The shallow trench isolation according to claim 12, wherein the liner layer comprises an insulating layer.
- 17. (original) The shallow trench isolation according to claim 16, wherein the liner layer is a silicon nitride layer.
- 18. (original) The shallow trench isolation according to claim 12, further comprising a pad oxide layer formed between the liner layer and the substrate.

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- 19. (original) The shallow trench isolation according to claim 12, further comprising another insulating layer covering the liner layer.
  - 20. (previously presented) A shallow trench isolation, comprising:
  - a substrate, having a trench therein;
  - an insulating layer, disposed in the trench; and
- a liner layer, formed over the substrate covering the insulating layer so that the liner layer protects the shallow trench isolation from external stress or thermal effect.
- 21. (previously presented) The shallow trench isolation according to claim 20, wherein the liner layer further extends to an upper surface of the substrate.
- 22. (previously presented) The shallow trench isolation according to claim 20, wherein the liner layer has a low etching selectivity relative to the insulating layer.
- 23. (previously presented) The shallow trench isolation according to claim 20, wherein the liner layer has a thickness between 50 angstrom to 200 angstrom.
- 24. (previously presented) The shallow trench isolation according to claim 20, wherein the liner layer comprises an insulating layer.
- 25. (previously presented) The shallow trench isolation according to claim 20, further comprising a pad oxide layer formed between the liner layer and the substrate.
- 26. (previously presented) The shallow trench isolation according to claim 20, further comprising another insulating layer covering the liner layer.